

63  
SEQUENCE LISTING

<110> Emil Israel Katz

<120> PEPTIDES REPRESENTATIVE OF POLYPEPTIDES OF INTEREST AND  
ANTIBODIES DIRECTED THEREAGAINST, AND METHODS, SYSTEMS AND KITS FOR  
GENERATING AND UTILIZING EACH

<130> 01/22283

<160> 253

<170> PatentIn version 3.1

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 20 25 30

Asn Ala Gly Asn Leu Glu Asp Leu Met Ser Asn Ile Thr Asn Arg  
 35 40 45

&lt;210&gt; 15

&lt;211&gt; 18

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&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 15

Ser Asp Ile Asn Asp Thr Gly Phe Phe Met Asn Leu Glu Glu Asp Met  
 1 5 10 15

Thr Arg

&lt;210&gt; 16

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 16

Tyr Ala Tyr Tyr Tyr Ser Gly Ile Gly Ala Gly Val Leu Val Ala Ala  
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Tyr Ile Gln Val Ser Phe Trp Cys Leu Ala Ala Gly Arg  
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Ile Arg

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Lys

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Gly Trp Lys  
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Lys

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Glu Leu Glu Arg

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Tyr Asn Lys

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Arg  
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Ile Gly Ile Lys  
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Lys

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Ala Ser Tyr Ala Leu Ala Phe Trp Tyr Gly Thr Thr Leu Val Leu Ser  
20 25 30

Gly Glu Tyr Ser Ile Gly Gln Val Leu Thr Val Phe Phe Ser Val Leu  
35 40 45

Ile Gly Ala Phe Ser Val Gly Gln Ala Ser Pro Ser Ile Glu Ala Phe  
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Ala Asn Ala Arg  
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Gly Ala Ala Tyr Glu Ile Phe Lys  
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Ser Gly His Lys

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Pro Asp Asn Ile Lys

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Gly Asn Leu Glu Phe Arg

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Lys  
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Glu Val Lys  
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Ile Leu Lys  
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Val Gln Ser Gly Gln Thr Val Ala Leu Val Gly Asn Ser Gly Cys Gly  
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Lys

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Ser Thr Thr Val Gln Leu Met Gln Arg  
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Arg

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Thr Ile Asn Val Arg  
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Phe Leu Arg

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Ile Ala Glu Asn Ile Arg  
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Tyr Gly Arg

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Glu Asn Val Thr Met Asp Glu Ile Glu Lys  
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Ala Val Lys  
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Glu Ala Asn Ala Tyr Asp Phe Ile Met Lys  
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Leu Pro His Lys

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Phe Asp Thr Leu Val Gly Glu Arg

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Gly Ala Gln Leu Ser Gly Gly Gln Lys

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Gln Arg  
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Ile Ala Ile Ala Arg  
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Ala Leu Val Arg  
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Asn Pro Lys  
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Ala Val Val Gln Val Ala Leu Asp Lys  
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Ala Arg  
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Lys  
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Gly Arg  
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Thr Thr Ile Val Ile Ala His Arg  
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Leu Ser Thr Val Arg  
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Asn Ala Asp Val Ile Ala Gly Phe Asp Asp Gly Val Ile Val Glu Lys  
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Gly Asn His Asp Glu Leu Met Lys  
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Glu Lys  
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Gly Ile Tyr Phe Lys  
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Leu Val Thr Met Gln Thr Ala Gly Asn Glu Val Glu Leu Glu Asn Ala  
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Ala Asp Glu Ser Lys  
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Ser Glu Ile Asp Ala Leu Glu Met Ser Ser Asn Asp Ser Arg  
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Ser Ser Leu Ile Arg  
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Lys

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Arg

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Ser Thr Arg

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Arg  
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Ser Val Arg  
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Gly Ser Gln Ala Gln Asp Arg  
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Lys

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Leu Ser Thr Lys

1

<210> 88

<211> 14

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<400> 88

Glu Ala Leu Asp Glu Ser Ile Pro Pro Val Ser Phe Trp Arg

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5

10

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&lt;400&gt; 89

Ile Met Lys

1

&lt;210&gt; 90

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 90

Leu	Asn	Leu	Thr	Glu	Trp	Pro	Tyr	Phe	Val	Val	Gly	Val	Phe	Cys	Ala
1				5					10					15	

Ile	Ile	Asn	Gly	Gly	Leu	Gln	Pro	Ala	Phe	Ala	Ile	Ile	Phe	Ser	Lys
			20					25					30		

&lt;210&gt; 91

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 91

Ile	Ile	Gly	Val	Phe	Thr	Arg
1					5	

&lt;210&gt; 92

&lt;211&gt; 7

&lt;212&gt; PRT

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Ile Asp Asp Pro Glu Thr Lys  
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<210> 93

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Arg  
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<210> 94

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Gln Asn Ser Asn Leu Phe Ser Leu Leu Phe Leu Ala Leu Gly Ile Ile  
1 5 10 15

Ser Phe Ile Thr Phe Phe Leu Gln Gly Phe Thr Phe Gly Lys Ala Gly  
20 25 30

Glu Ile Leu Thr Lys  
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Arg

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Leu Arg

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Tyr Met Val Phe Arg

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5

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Ser Met Leu Arg

1

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<211> 10

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Gln Asp Val Ser Trp Phe Asp Asp Pro Lys

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5

10

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Asn Thr Thr Gly Ala Leu Thr Thr Arg

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<210> 101

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Leu Ala Asn Asp Ala Ala Gln Val Lys  
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Gly Ala Ile Gly Ser Arg  
1 5

<210> 103

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<400> 103

Leu Ala Val Ile Thr Gln Asn Ile Ala Asn Leu Gly Thr Gly Ile Ile  
1 5 10 15

Ile Ser Phe Ile Tyr Gly Trp Gln Leu Thr Leu Leu Leu Leu Ala Ile  
                   20                                  25                                  30

Val Pro Ile Ile Ala Ile Ala Gly Val Val Glu Met Lys  
           35                                  40                                  45

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Met Leu Ser Gly Gln Ala Leu Lys  
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Asp Lys  
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<210> 106

<211> 1

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&lt;400&gt; 106

Lys

1

&lt;210&gt; 107

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 107

Glu Leu Glu Gly Ala Gly Lys

1

5

&lt;210&gt; 108

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 108

Ile Ala Thr Glu Ala Ile Glu Asn Phe Arg

1

5

10

&lt;210&gt; 109

&lt;211&gt; 10

&lt;212&gt; PRT

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Thr	Val	Val	Ser	Leu	Thr	Gln	Glu	Gln	Lys
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Asn	Ser	Leu	Arg
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&lt;400&gt; 112

Lys

1

&lt;210&gt; 113

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 113

Ala	His	Ile	Phe	Gly	Ile	Thr	Phe	Ser	Phe	Thr	Gln	Ala	Met	Met	Tyr
1				5					10					15	

Phe	Ser	Tyr	Ala	Gly	Cys	Phe	Arg
				20			

&lt;210&gt; 114

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 114

Phe	Gly	Ala	Tyr	Leu	Val	Ala	His	Lys
1				5				

&lt;210&gt; 115

&lt;211&gt; 33

&lt;212&gt; PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 115

Leu Met Ser Phe Glu Asp Val Leu Leu Val Phe Ser Ala Val Val Phe  
1 5 10 15

Gly Ala Met Ala Val Gly Gln Val Ser Ser Phe Ala Pro Asp Tyr Ala  
20 25 30

Lys

<210> 116

<211> 2

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 116

Ala Lys

1

<210> 117

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 117

Ile Ser Ala Ala His Ile Ile Met Ile Ile Glu Lys  
1 5 10

<210> 118

<211> 33

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 118

Thr	Pro	Leu	Ile	Asp	Ser	Tyr	Ser	Thr	Glu	Gly	Leu	Met	Pro	Asn	Thr
1				5					10					15	

Leu	Glu	Gly	Asn	Val	Thr	Phe	Gly	Glu	Val	Val	Phe	Asn	Tyr	Pro	Thr
			20					25					30		

Arg

<210> 119

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 119

Pro	Asp	Ile	Pro	Val	Leu	Gln	Gly	Leu	Ser	Leu	Glu	Val	Lys
1				5				10					

<210> 120

<211> 1

<212> PRT

<213> Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 120

Lys

1

&lt;210&gt; 121

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 121

Gly Gln Thr Leu Ala Leu Val Gly Ser Ser Gly Cys Gly Lys  
 1 5 10

&lt;210&gt; 122

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 122

Ser Thr Val Val Gln Leu Leu Glu Arg  
 1 5

&lt;210&gt; 123

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 123

Phe Tyr Asp Pro Leu Ala Gly Lys  
1 5

&lt;210&gt; 124

&lt;211&gt; 6

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 124

Val Leu Leu Asp Gly Lys  
1 5

&lt;210&gt; 125

&lt;211&gt; 3

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 125

Glu Ile Lys  
1

&lt;210&gt; 126

&lt;211&gt; 1

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 126

Arg

1

&lt;210&gt; 127

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 127

Leu Asn Val Gln Trp Leu Arg  
1 5

&lt;210&gt; 128

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 128

Ala His Leu Gly Ile Val Ser Gln Glu Pro Ile Leu Phe Asp Cys Ser  
1 5 10 15Ile Ala Glu Asn Ile Ala Tyr Gly Asp Asn Ser Arg  
20 25

&lt;210&gt; 129

&lt;211&gt; 9

&lt;212&gt; PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 129

Val Val Ser Gln Glu Glu Ile Val Arg  
1 5

<210> 130

<211> 3

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 130

Ala Ala Lys  
1

<210> 131

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 131

Glu Ala Asn Ile His Ala Phe Ile Glu Ser Leu Pro Asn Lys  
1 5 10

<210> 132

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 132

Tyr Ser Thr Lys

1

<210> 133

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 133

Val Gly Asp Lys

1

<210> 134

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 134

Gly Thr Gln Leu Ser Gly Gly Gln Lys

1

5

<210> 135

<211> 2

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 135

Gln Arg

1

<210> 136

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 136

Ile Ala Ile Ala Arg

1

5

<210> 137

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 137

Ile Ala Ile Ala Arg

1

5

<210> 138

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 138

Ala Leu Val Arg  
1

<210> 139

<211> 20

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 139

Gln Pro His Ile Leu Leu Asp Glu Ala Thr Ser Ala Leu Asp Thr  
1                   5                   10                   15

Glu Ser Glu Lys  
20

<210> 140

<211> 8

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 140

Val Val Gln Glu Ala Leu Asp Lys  
1                   5

<210> 141

<211> 2

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 141

Ala Arg

1

<210> 142

<211> 3

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 142

Glu Gly Arg

1

<210> 143

<211> 8

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 143

Thr Cys Ile Val Ile Ala His Arg

1

5

<210> 144

<211> 17

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 144

Leu Ser Thr Ile Gln Asn Ala Asp Leu Ile Val Val Phe Gln Asn Gly  
1 5 10 15

Arg

<210> 145

<211> 2

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 145

Val Lys  
1

<210> 146

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 146

Glu His Gly Thr His Gln Gln Leu Leu Ala Gln Lys  
1 5 10

<210> 147

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 147

Gly	Ile	Tyr	Phe	Ser	Met	Val	Ser	Val	Gln	Ala	Gly	Thr	Lys
1				5					10				

<210> 148

<211> 1

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 148

Arg

1

<210> 149

<211> 1

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 149

Gln

1

<210> 150

<211> 29

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 150

Met	Ser	Ser	Ser	Asn	Val	Glu	Val	Phe	Ile	Pro	Val	Ser	Gln	Gly	Asn
1				5					10					15	

Thr	Asn	Gly	Phe	Pro	Ala	Thr	Val	Ser	Asn	Asp	Leu	Lys
		20						25				

<210> 151

<211> 16

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 151

Ala	Phe	Thr	Glu	Gly	Ala	Val	Leu	Ser	Phe	His	Asn	Ile	Cys	Tyr	Arg
1				5					10					15	

<210> 152

<211> 2

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 152

Val Lys  
1

<210> 153

<211> 2

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 153

Leu Lys  
1

<210> 154

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 154

Ser Gly Phe Leu Pro Cys Arg  
1 5

<210> 155

<211> 1

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 155

Lys

1

<210> 156

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 156

Pro Val Glu Lys

1

<210> 157

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 157

Glu Ile Leu Ser Asn Ile Asn Gly Ile Met Lys

1

5

10

<210> 158

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 158

Pro Gly Leu Asn Ala Ile Leu Gly Pro Thr Gly Gly Gly Lys  
1                      5                      10

<210> 159

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 159

Ser Ser Leu Leu Asp Val Leu Ala Ala Arg  
1                      5                      10

<210> 160

<211> 1

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 160

Lys  
1

<210> 161

<211> 16

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

&lt;400&gt; 161

Asp Pro Ser Gly Leu Ser Gly Asp Val Leu Ile Asn Gly Ala Pro Arg  
 1 5 10 15

&lt;210&gt; 162

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 162

Pro Ala Asn Phe Lys  
 1 5

&lt;210&gt; 163

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 163

Cys Asn Ser Gly Tyr Val Val Gln Asp Asp Val Val Met Gly Thr Leu  
 1 5 10 15

Thr Val Arg

&lt;210&gt; 164

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 164

Glu	Asn	Leu	Gln	Phe	Ser	Ala	Ala	Leu	Arg
1				5					10

&lt;210&gt; 165

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 165

Leu	Ala	Thr	Thr	Met	Thr	Asn	His	Glu	Lys
1				5					10

&lt;210&gt; 166

&lt;211&gt; 3

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 166

Asn	Glu	Arg
1		

&lt;210&gt; 167

&lt;211&gt; 3

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 167

Ile Asn Arg  
1

<210> 168

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 168

Val Ile Glu Glu Leu Gly Leu Asp Lys  
1 5

<210> 169

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 169

Val Ala Asp Ser Lys  
1 5

<210> 170

<211> 7

<212> PRT

<213> Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 170

Val Gly Thr Gln Phe Ile Arg  
1 5

&lt;210&gt; 171

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 171

Gly Val Ser Gly Gly Glu Arg  
1 5

&lt;210&gt; 172

&lt;211&gt; 1

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 172

Lys  
1

&lt;210&gt; 173

&lt;211&gt; 1

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 173

Arg

1

&lt;210&gt; 174

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 174

Thr	Ser	Ile	Gly	Met	Glu	Leu	Ile	Thr	Asp	Pro	Ser	Ile	Leu	Ser	Leu
1				5				10					15		

Asp	Glu	Pro	Thr	Thr	Gly	Leu	Asp	Ser	Ser	Thr	Ala	Asn	Ala	Val	Leu
			20				25						30		

Leu	Leu	Leu	Lys
			35

&lt;210&gt; 175

&lt;211&gt; 1

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 175

Arg

1

&lt;210&gt; 176

<211> 3

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 176

Met Ser Lys

1

<210> 177

<211> 3

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 177

Gln Gly Arg

1

<210> 178

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 178

Thr Ile Ile Phe Ser Ile His Gln Pro Arg

1

5

10

<210> 179

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 179

Tyr Ser Ile Phe Lys  
1 5

<210> 180

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 180

Leu Phe Asp Ser Leu Thr Leu Leu Ala Ser Gly Arg  
1 5 10

<210> 181

<211> 46

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 181

Leu Met Phe His Gly Pro Ala Gln Glu Ala Leu Gly Tyr Phe Glu Ser  
1 5 10 15

Ala Gly Tyr His Cys Glu Ala Tyr Asn Asn Pro Ala Asp Phe Phe Leu  
20 25 30

Asp Ile Ile Asn Gly Asp Ser Thr Ala Val Ala Leu Asn Arg  
           35                          40                          45

<210> 182

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 182

Glu Glu Asp Phe Lys  
   1                          5

<210> 183

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 183

Ala Thr Glu Ile Ile Glu Pro Ser Lys  
   1                          5

<210> 184

<211> 3

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 184

Gln Asp Lys

1

<210> 185

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 185

Pro Leu Ile Glu Lys

1

5

<210> 186

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 186

Leu Ala Glu Ile Tyr Val Asn Ser Ser Phe Tyr Lys

1

5

10

<210> 187

<211> 3

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 187

Glu Thr Lys  
1

<210> 188

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 188

Ala Glu Leu His Gln Leu Ser Gly Gly Glu Lys  
1                      5                      10

<210> 189

<211> 1

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 189

Lys  
1

<210> 190

<211> 1

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 190

Lys  
1

<210> 191

<211> 1

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 191

Lys  
1

<210> 192

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 192

Ile Thr Val Phe Lys  
1 5

<210> 193

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 193

Glu Ile Ser Tyr Thr Thr Ser Phe Cys His Gln Leu Arg  
1 5 10

<210> 194

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 194

Trp Val Ser Lys  
1

<210> 195

<211> 1

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 195

Arg  
1

<210> 196

<211> 3

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 196

Ser Phe Lys

1

<210> 197

<211> 31

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 197

Asn Leu Leu Gly Asn Pro Gln Ala Ser Ile Ala Gln Ile Ile Val Thr  
1 5 10 15

Val Val Leu Gly Leu Val Ile Gly Ala Ile Tyr Phe Gly Leu Lys  
20 25 30

<210> 198

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 198

Asn Asp Ser Thr Gly Ile Gln Asn Arg  
1 5

<210> 199

<211> 26

<212> PRT

<213> Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 199

Ala	Gly	Val	Leu	Phe	Phe	Leu	Thr	Thr	Asn	Gln	Cys	Phe	Ser	Ser	Val
1				5					10					15	

Ser	Ala	Val	Glu	Leu	Phe	Val	Val	Glu	Lys
			20					25	

&lt;210&gt; 200

&lt;211&gt; 1

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 200

Lys  
1

&lt;210&gt; 201

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 201

Leu	Phe	Ile	His	Glu	Tyr	Ile	Ser	Gly	Tyr	Tyr	Arg
1				5				10			

&lt;210&gt; 202

&lt;211&gt; 8

&lt;212&gt; PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 202

Val Ser Ser Tyr Phe Leu Gly Lys  
1 5

<210> 203

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 203

Leu Leu Ser Asp Leu Leu Pro Met Arg  
1 5

<210> 204

<211> 18

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 204

Met Leu Pro Ser Ile Ile Phe Thr Cys Ile Val Tyr Phe Met Leu Gly  
1 5 10 15

Leu Lys

<210> 205

<211> 2

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 205

Pro Lys

1

<210> 206

<211> 73

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 206

Ala	Asp	Ala	Phe	Phe	Val	Met	Met	Phe	Thr	Leu	Met	Met	Val	Ala	Tyr
1				5					10					15	

Ser	Ala	Ser	Ser	Met	Ala	Leu	Ala	Ile	Ala	Ala	Gly	Gln	Ser	Val	Val
			20					25					30		

Ser	Val	Ala	Thr	Leu	Leu	Met	Thr	Ile	Cys	Phe	Val	Phe	Met	Met	Ile
		35					40					45			

Phe	Ser	Gly	Leu	Leu	Val	Asn	Leu	Thr	Thr	Ile	Ala	Ser	Trp	Leu	Ser
	50					55					60				

Trp	Leu	Gln	Tyr	Phe	Ser	Ile	Pro	Arg
65					70			

<210> 207

<211> 41

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 207

Tyr Gly Phe Thr Ala Leu Gln His Asn Glu Phe Leu Gly Gln Asn Phe  
1 5 10 15

Cys Pro Gly Leu Asn Ala Thr Gly Asn Asn Pro Cys Asn Tyr Ala Thr  
20 25 30

Cys Thr Gly Glu Glu Tyr Leu Val Lys  
35 40

<210> 208

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 208

Gln Gly Ile Asp Leu Ser Pro Trp Gly Leu Trp Lys  
1 5 10

<210> 209

<211> 19

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 209

Asn His Val Ala Leu Ala Cys Met Ile Val Ile Phe Leu Thr Ile Ala  
1 5 10 15

Tyr Leu Lys

<210> 210

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 210

Leu Leu Phe Leu Lys  
1 5

<210> 211

<211> 1

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 211

Lys  
1

<210> 212

<211> 2

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

&lt;400&gt; 212

Tyr Ser

1

&lt;210&gt; 213

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 213

Leu Tyr Met Val Val Gly Thr Leu Ala Ala Ile Ile His Gly Ala Gly  
 1 5 10 15

Leu Pro Leu Met Met Leu Val Phe Gly Glu Met Thr Asp Ile Phe Ala  
 20 25 30

Asn Ala Gly Asn Leu Glu Asp Leu Met Ser Asn Ile Thr Asn Arg  
 35 40 45

&lt;210&gt; 214

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 214

Ser Asp Ile Asn Asp Thr Gly Phe Phe Met Asn Leu Glu Glu Asp Met  
 1 5 10 15

Thr Arg

&lt;210&gt; 215

<211> 29

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 215

Tyr Ala Tyr Tyr Tyr Ser Gly Ile Gly Ala Gly Val Leu Val Ala Ala  
1 5 10 15

Tyr Ile Gln Val Ser Phe Trp Cys Leu Ala Ala Gly Arg  
20 25

<210> 216

<211> 21

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 216

Ile Gly Met Phe Phe Gln Ser Met Ala Thr Phe Phe Thr Gly Phe Ile  
1 5 10 15

Val Gly Phe Thr Arg  
20

<210> 217

<211> 21

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

&lt;400&gt; 217

Leu Thr Leu Val Ile Leu Ala Ile Ser Pro Val Leu Gly Leu Ser Ala  
 1 5 10 15

Ala Val Trp Ala Lys  
 20

&lt;210&gt; 218

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 218

Ala Ile Thr Ala Asn Ile Ser Ile Gly Ala Ala Phe Leu Leu Ile Tyr  
 1 5 10 15

Ala Ser Tyr Ala Leu Ala Phe Trp Tyr Gly Thr Thr Leu Val Leu Ser  
 20 25 30

Gly Glu Tyr Ser Ile Gly Gln Val Leu Thr Val Phe Phe Ser Val Leu  
 35 40 45

Ile Gly Ala Phe Ser Val Gly Gln Ala Ser Pro Ser Ile Glu Ala Phe  
 50 55 60

Ala Asn Ala Arg  
 65

&lt;210&gt; 219

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 219

Leu Tyr Asp Pro Thr Glu Gly Met Val Ser Val Asp Gly Gln Asp Ile  
 1                      5                      10                      15

Arg

&lt;210&gt; 220

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 220

Ile Leu Leu Leu Asp Glu Ala Thr Ser Ala Leu Asp Thr Glu Ser Glu  
 1                      5                      10                      15

Ala Val Val Gln Val Ala Leu Asp Lys  
                     20                      25

&lt;210&gt; 221

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 221

Asn Ala Asp Val Ile Ala Gly Phe Asp Asp Gly Val Ile Val Glu Lys  
 1                      5                      10                      15

&lt;210&gt; 222

&lt;211&gt; 21

&lt;212&gt; PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 222

Leu Val Thr Met Gln Thr Ala Gly Asn Glu Val Glu Leu Glu Asn Ala  
1 5 10 15

Ala Asp Glu Ser Lys  
20

<210> 223

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 223

Ser Glu Ile Asp Ala Leu Glu Met Ser Ser Asn Asp Ser Arg  
1 5 10

<210> 224

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 224

Glu Ala Leu Asp Glu Ser Ile Pro Pro Val Ser Phe Trp Arg  
1 5 10

<210> 225

<211> 32

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 225

Leu Asn Leu Thr Glu Trp Pro Tyr Phe Val Val Gly Val Phe Cys Ala  
1 5 10 15

Ile Ile Asn Gly Gly Leu Gln Pro Ala Phe Ala Ile Ile Phe Ser Lys  
20 25 30

<210> 226

<211> 28

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 226

Gln Asn Ser Asn Leu Phe Ser Leu Leu Phe Leu Ala Leu Gly Ile Ile  
1 5 10 15

Ser Phe Ile Thr Phe Phe Leu Gln Gly Phe Thr Lys  
20 25

<210> 227

<211> 45

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

&lt;400&gt; 227

Leu Ala Val Ile Thr Gln Asn Ile Ala Asn Leu Gly Thr Gly Ile Ile  
 1 5 10 15

Ile Ser Phe Ile Tyr Gly Trp Gln Leu Thr Leu Leu Leu Leu Ala Ile  
 20 25 30

Val Pro Ile Ile Ala Ile Ala Gly Val Val Glu Met Lys  
 35 40 45

&lt;210&gt; 228

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 228

Phe Glu His Met Tyr Ala Gln Ser Leu Gln Val Pro Tyr Arg  
 1 5 10

&lt;210&gt; 229

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 229

Ala His Ile Phe Gly Ile Thr Phe Ser Phe Thr Gln Ala Met Met Tyr  
 1 5 10 15

Phe Ser Tyr Ala Gly Cys Phe Arg  
 20

&lt;210&gt; 230

<211> 32

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 230

Leu Met Ser Phe Glu Asp Val Leu Leu Val Phe Ser Ala Val Val Phe  
1 5 10 15

Gly Ala Met Ala Val Gly Gln Ser Ser Phe Ala Pro Asp Tyr Ala Lys  
20 25 30

<210> 231

<211> 33

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 231

Thr Pro Leu Ile Asp Ser Tyr Ser Thr Glu Gly Leu Met Pro Asn Thr  
1 5 10 15

Leu Glu Gly Asn Val Thr Phe Gly Glu Val Val Phe Asn Tyr Pro Thr  
20 25 30

Arg

<210> 232

<211> 14

<212> PRT

<213> Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 232

Glu Ala Asn Ile His Ala Phe Ile Glu Ser Leu Pro Asn Lys  
 1 5 10

&lt;210&gt; 233

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 233

Gly Ile Tyr Phe Ser Met Val Ser Val Gln Ala Gly Thr Lys  
 1 5 10

&lt;210&gt; 234

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 234

Met Ser Ser Ser Asn Val Glu Val Phe Ile Pro Val Ser Gln Gly Asn  
 1 5 10 15

Thr Asn Gly Phe Pro Ala Thr Val Ser Asn Asp Leu Lys  
 20 25

&lt;210&gt; 235

&lt;211&gt; 16

&lt;212&gt; PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 235

Ala Phe Thr Glu Gly Ala Val Leu Ser Phe His Asn Ile Cys Tyr Arg  
1 5 10 15

<210> 236

<211> 25

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 236

Glu Ile Leu Ser Asn Ile Asn Gly Ile Met Lys Pro Gly Leu Asn Ala  
1 5 10 15

Ile Leu Gly Pro Thr Gly Gly Gly Lys  
20 25

<210> 237

<211> 21

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 237

Asp Pro Ser Gly Leu Ser Gly Asp Val Leu Ile Asn Gly Ala Pro Arg  
1 5 10 15

Pro Ala Asn Phe Lys  
20

<210> 238

<211> 19

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 238

Cys Asn Ser Gly Tyr Val Val Gln Asp Asp Val Val Met Gly Thr Leu  
1 5 10 15

Thr Val Arg

<210> 239

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 239

Glu Asn Leu Gln Phe Ser Ala Ala Leu Arg  
1 5 10

<210> 240

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

&lt;400&gt; 240

Leu Ala Thr Thr Met Thr Asn His Glu Lys  
 1 5 10

&lt;210&gt; 241

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 241

Thr Ser Ile Gly Met Glu Leu Ile Thr Asp Pro Ser Ile Leu Ser Leu  
 1 5 10 15

Asp Glu Pro Thr Thr Gly Leu Asp Ser Ser Thr Ala Asn Ala Val Leu  
 20 25 30

Leu Leu Leu Lys  
 35

&lt;210&gt; 242

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 242

Thr Ile Ile Phe Ser Ile His Gln Pro Arg  
 1 5 10

&lt;210&gt; 243

&lt;211&gt; 12

&lt;212&gt; PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 243

Leu Phe Asp Ser Leu Thr Leu Leu Ala Ser Gly Arg  
1 5 10

<210> 244

<211> 46

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 244

Leu Met Phe His Gly Pro Ala Gln Glu Ala Leu Gly Tyr Phe Glu Ser  
1 5 10 15

Ala Gly Tyr His Cys Glu Ala Tyr Asn Asn Pro Ala Asp Phe Phe Leu  
20 25 30

Asp Ile Ile Asn Gly Asp Ser Thr Ala Val Ala Leu Asn Arg  
35 40 45

<210> 245

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 245

Leu Ala Glu Ile Tyr Val Asn Ser Ser Phe Tyr Lys  
1 5 10

<210> 246

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 246

Glu Ile Ser Tyr Thr Thr Ser Phe Cys His Gln Leu Arg  
1 5 10

<210> 247

<211> 31

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 247

Asn Leu Leu Gly Asn Pro Gln Ala Ser Ile Ala Gln Ile Ile Val Thr  
1 5 10 15

Val Val Leu Gly Leu Val Ile Gly Ala Ile Tyr Phe Gly Leu Lys  
20 25 30

<210> 248

<211> 26

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

&lt;400&gt; 248

Ala Gly Val Leu Phe Phe Leu Thr Thr Asn Gln Cys Phe Ser Ser Val  
 1 5 10 15

Ser Ala Val Glu Leu Phe Val Val Glu Lys  
 20 25

&lt;210&gt; 249

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 249

Leu Phe Ile His Glu Tyr Ile Ser Gly Tyr Tyr Arg  
 1 5 10

&lt;210&gt; 250

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Computer generated synthetic peptide

&lt;400&gt; 250

Ala Asp Ala Phe Phe Val Met Met Phe Thr Leu Met Met Val Ala Tyr  
 1 5 10 15

Ser Ala Ser Ser Met Ala Leu Ala Ile Ala Ala Gly Gln Ser Val Ser  
 20 25 30

Val Ala Thr Leu Leu Met Thr Ile Cys Phe Val Phe Met Met Ile Phe  
 35 40 45

Ser Gly Leu Leu Val Asn Leu Thr Thr Ile Ala Ser Trp Leu Ser Trp  
 50 55 60

Leu Gln Tyr Phe Ser Ile Pro Arg  
65 70

<210> 251

<211> 41

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 251

Tyr Gly Phe Thr Ala Leu Gln His Asn Glu Phe Leu Gly Gln Asn Phe  
1 5 10 15

Cys Pro Gly Leu Asn Ala Thr Gly Asn Asn Pro Cys Asn Tyr Ala Thr  
20 25 30

Cys Thr Gly Glu Glu Tyr Leu Val Lys  
35 40

<210> 252

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 252

Gln Gly Ile Asp Leu Ser Pro Trp Gly Leu Trp Lys  
1 5 10

<210> 253

<211> 19

<212> PRT

<213> Artificial sequence

<220>

<223> Computer generated synthetic peptide

<400> 253

Asn	His	Val	Ala	Leu	Ala	Cys	Met	Ile	Val	Ile	Phe	Leu	Thr	Ile	Ala
1				5				10						15	

Tyr Leu Lys